

A NEW SPECIES OF THE GENUS THERION  
(HYMENOPTERA, ICHNEUMONIDÆ)  
WITH A KEY TO THE SPECIES  
OF THE NORTHEASTERN  
STATES

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The new species herewith described is apparently well distributed over the northeastern states since the specimens in this series are from Michigan, New York, New Jersey and Pennsylvania.

***Therion nigripes***, new species.

FEMALE.—Length 20–21 mm., wing 12–13 mm. Black, except as follows: face, mentum, clypeus (except apical edge), broad inner orbits to above antennal sockets, longitudinal ridge in center of face, a narrow stripe on outer orbits extending from base of mandibles to top of head, bright yellow; antennæ entirely light yellow except the first four joints, posterior side of these joints entirely black except apex of fourth which is yellowish; first joint whitish in front, second and third black, fourth black on basal third and yellowish on apical two thirds; a small reddish spot on anterior one-third of third tergite of abdomen; antennæ with 55–59 joints. Thorax shining and covered with short black hair; wings entirely black except tegulæ and a small spot at base of fore wing which are testaceous; propodeum roughly sculptured, the posterior surface with strong transverse ridges, and the sides projecting outwards forming knobs about the center; entire propodeum roughly sculptured with heavy ridges as is typical in the genus. Legs black except as follows: anterior pair slightly yellowish all over, a reddish ring on base of middle and posterior femur; metatarsal joints of middle and posterior legs with basal three-fourths yellowish; posterior femur with a yellow basal stripe on anterior side for three-fourths of length; middle and posterior tarsal joints covered with light-colored hair.

MALE.—Length 21–23 mm., wing 10–11 mm. Similar to the female except as follows: first two segments of antennæ white in front; front legs more yellowish and anterior sides of middle legs also slightly yellowish; posterior tarsal joints entirely yellow except apical joints; face with surface between middle ridge and inner orbits black except for a broad yellow spot just below antennal sockets.

This species may be separated from all the other species in this region except *T. tenuipes* by the dark-colored posterior tibiæ. As

noted in the key it may be distinguished from this species by the difference in comparative lengths of the posterior tarsal joints.

Holotype female.—Allegan Co., Mich., 3-25-42 (RRD).<sup>1</sup>

Allotype male.—Midland Co., Mich., 7-23-38 (RRD).

Paratypes.—Female, Ithaca, N. Y., V-21-33 (Tow.)<sup>2</sup>; female, Moorestown, N. J., VIII-2-39 (Tow.); female, Valley Forge, Pa., VIII-9-39 (Tow.); female, Elmira, N. Y., VII-4-37 (Tow.); female, Lockport, N. Y., VIII-25-36 (Tow.); female, Canandaga, N. Y., VII-11-35 (Tow.); 6 males, Midland Co., Mich., VII-21-38, VII-23-38, VII-21-39 (Tow.); 2 females, Midland Co., Mich., VIII-13-38, VII-21-38 (Tow.); female, Isabella Co., Mich., VII-21-38 (Tow.); female, Wayne Co., Mich., VIII-21-18 (U.M.)<sup>3</sup>; female, Midland Co., Mich., VII-23-38 (RRD); 7 males, Midland Co., Mich., VII-23-38, VII-15-44 (RRD).

For the present, the types will be retained by the author but ultimately will be deposited at the Museum of Comparative Zoology, Harvard College, Cambridge, Mass.

I wish to thank Dr. H. K. Townes for the loan of the species in this genus which are not in my collection and also for his help in making up the keys.

#### KEY TO THE NORTHEASTERN SPECIES

1. Posterior tibiæ entirely dark, or at least with their basal two thirds dark fulvous with only a stripe of yellowish on one edge; wings black ..... 2
1. Posterior tibiæ with their basal two thirds yellow ..... 3
2. Posterior tibiæ longer than the posterior femur and trochanter joints combined, approximately one and one seventh times as long; posterior basitarsi longer than the remainder of posterior tarsal joints; a narrow yellow stripe in center of face and one on each inner orbit, remainder of face black ..... *tenuipes* Nort.
2. Posterior tibiæ about the length of posterior femur and trochanter joints combined; posterior basitarsi shorter than remainder of posterior tarsal joints; face yellowish all over with a blackish cast ..... *nigripes* n. sp.
3. Posterior coxæ and trochanters entirely black; wings dark; thorax head and abdomen entirely black ..... *morio* Fab.
3. Posterior coxæ and trochanters not entirely black ..... 4

<sup>1</sup> RRD—Collection R. R. Dreisbach.

<sup>2</sup> Tow.—Collection Henry K. Townes.

<sup>3</sup> U.M.—Collection University of Michigan.

4. Fore wings more than 15 mm. long; coxæ all black ..... 5
5. Wings dark brown in reflected light; posterior tibiæ about one-tenth longer than posterior femur and trochanters combined; face yellow with a dark longitudinal stripe a short distance within inner orbits; the second and third antennal joints and a basal ring on fourth entirely dark; outer surface of mandibles almost entirely dark. Whole costal cell light yellow, as well as stigma ..... *confusum* Ash.
5. Wings yellowish brown in reflected light; posterior tibiæ just about length of posterior femur and trochanters; face entirely yellow; second, third and fourth antennal joints yellowish on under side; outer surface of mandibles almost entirely yellow; costal cell and stigma with only a very narrow stripe on fore edge yellow.  
*fuscipenne* Nort.
6. Wings dark brown; hind femur mostly dark ..... 7
6. Wings light brown; if hind femur is almost entirely dark, then fore and middle coxæ are yellowish white ..... 9
7. Costal vein entirely black except a very short length at base, stigma entirely black or very dark brown; posterior tibiæ shorter than posterior femur and trochanters combined; length about 20 mm. in one case, and a little over 13 mm. in the other case ..... 8
7. Costal vein yellowish as is also the stigma; posterior tibiæ longer than combined length of posterior femur and trochanters; length about 22.5 mm. .... *nigrovarium* Br.
8. Size large, 20 mm.; length of posterior tibiæ 5.25 mm., of posterior femur and trochanters 4.65 mm. .... *texanum* Ash.
8. Smaller, slightly over 13 mm.; length of posterior tibiæ about 4 mm., of posterior femur and trochanters about 3.65 mm. smaller in every way than the preceding ..... *petiolatum* D.
9. A large species, over 20 mm. in length; thorax almost entirely black, some red spots on mesopleura in some cases; first three segments of abdomen conspicuously red; coxæ black; face of female with a yellow central stripe, and a narrow yellow line on inner orbits, rest of face black; face of male entirely yellow ..... *circumflexum* (L.)
9. Smaller species, length 13 mm. to 15 mm.; thorax red and black; only first two segments of abdomen conspicuously red, the third much more black than red; coxæ black and red in females and black and yellowish white in males; face of females entirely yellow ..... 10
10. Stigma very light yellow; wings yellowish; a much stouter species than the following; fore wings of male 8 mm.; face concave in center.  
*sassacus* Vier.
10. Stigma very dark yellow; wings much more nearly hyaline; species more slender than preceding; fore wings of male 6.25 mm.; face with a longitudinal ridge in center extending length of face.  
*varicolor* Vier.